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see page 6



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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/032,214

TIME: 17:10:41

Input Set : D:\216730us.app

Output Set: N:\CRF3\05232002\J032214.raw

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3 <110> APPLICANT: PUNNONEN, JUHA
4     LAZETIC, ALEXANDRA
5     LEONG, STEVEN R.
6     CHANG, CHIA-CHUN
7     APT, DORIS
8     GUSTAFSSON, CLAES
10 <120> TITLE OF INVENTION: NOVEL CO-STIMULATORY MOLECULES
12 <130> FILE REFERENCE: 02-106730US
14 <140> CURRENT APPLICATION NUMBER: 10/032,214
C--> 15 <141> CURRENT FILING DATE: 2002-12-20
17 <150> PRIOR APPLICATION NUMBER: 09/888,324
18 <151> PRIOR FILING DATE: 2001-06-22
20 <150> PRIOR APPLICATION NUMBER: PCT/US01/19973
21 <151> PRIOR FILING DATE: 2001-06-22
23 <150> PRIOR APPLICATION NUMBER: 60/213,946
24 <151> PRIOR FILING DATE: 2000-06-23
26 <150> PRIOR APPLICATION NUMBER: 60/241,245
27 <151> PRIOR FILING DATE: 2000-10-17
29 <160> NUMBER OF SEQ ID NOS: 320
31 <170> SOFTWARE: PatentIn Ver. 2.1
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50 atcagagctg acttccctgt ccctaccata aatgatcttg gaaatccatc tcctaataatc 480
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57 cagagaaggg agaatgaagt ggaaatgcaa agttgctctc agtctccatg a 891

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76 gagaacgggt ctttcagacg ggagcacctg acctccgtga cactgtccat cagagctgac 420
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92 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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94 <400> SEQUENCE: 3
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105 tgctccgcct ctggagattt tccagagcct cgctcgcct ggatggaaga tggagaagaa 540
106 ctaaacgcgc tcaacacgac ggttgaccag gatttggaac cggagctcta cagcgtcagc 600
107 agtgaactgg atttcaatgt gacaaataac cacagcatcg tgtgtctcat caaatacggg 660
108 gagctgtcgg tgtcacagat cttcccttgg agcaaaccac agcaggagcc tcccattgat 720
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110 ctctactgcc tggcctgcag acatgttgcg aggtggaaaa gaacaagaag gaatgaagag 840
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115 <211> LENGTH: 912
116 <212> TYPE: DNA

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126 accaaaagag tgaaagaaac agtaatgcta tctgtgatt acagcacatc cactgaagaa 180
127 ctgacaagcc ttcggtacta ttggcaaaag gatagtaaaa tgggtgctggc catcctgcct 240
128 ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tctgtgacat gaacgataac 300
129 ccccgatttg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
130 cagaagcctg atttgaaagg ggcttataaa ctggagcacc tgacttccgt gagggttaatg 420
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133 aatggagaag aattaaatgc taccaacaca acagtttccc aagatcctgg aactgagctc 600
134 tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
135 atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
136 cctcccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
137 actgcggtag ttctctactg cctggcctgc agacatgttg cgaggtggaa aagaacaaga 840
138 aggaatgaag agacagtggg aactgaaagg ctgtccccta tctacttagg ctctgcgcaa 900
139 tctcgggct ga                                     912
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143 <211> LENGTH: 912
144 <212> TYPE: DNA
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154 accaaaagag tgaaagaaac agtaatgcta tctgtgatt acagcacatc cactgaagaa 180
155 ctgacaagcc ttcggtacta ttggcaaaag gatagtaaaa tgggtgctggc catcctgcct 240
156 ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tctgtgacat gaacgataac 300
157 ccccgatttg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
158 cagaagcctg ttttgaaagg ggcttataaa ctggagcacc tggcttccgt gagggttaatg 420
159 atcagagctg acttccctgt cctaccata aatgatcttg gaaatccatc tctaataatc 480
160 agaaggctaa ttgtctcaac ctctggaggt ttccaaggc cccacctcta ctggttggaa 540
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163 atcaaatacg gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
164 cctcccattg atcagcttcc attctgggtc attatcccag taagtgggtc tttggtgctc 780
165 actgcggtag ttctctactg cctggcctgc agacatgttg cgaggtggaa aagaacaaga 840
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172 <212> TYPE: DNA
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176 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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179 <400> SEQUENCE: 6

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182 accaaaagag tgaaagaaac agtaatgcta tctgtgatt acagcacatc cactgaagaa 180
183 ctgacaagcc ttcggatcta ttggcaaaaag gatagtaaaa tgggtgctggc catcctgcct 240
184 ggaaaagtgc aggtgtggcc tgagtacaag aaccgcacca tctgtgacat gaacgataac 300
185 ccccgatttg tgatcctggc tctgcgcctg tcggacagtg gcacctacac ctgtgttatt 360
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187 atcagagctg acttccctgt ccctaccata aatgatcttg gaaatccatc tcctaataatc 480
188 agaaggctaa tttgctcaac ctctggaggt tttccaaggc cccacctcta ctggttggaa 540
189 aatggagaag aattaaatgc taccaacaca acactgtccc aagatcctga aaccaagctc 600
190 tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
191 atcaaatatc gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
192 cccccatttg atcagcttcc attctgggtc attatcccag taagtgggtg tttggtgctc 780
193 actgcggtag ttctctaccg cccggcctgc agacatgttg cgagggtggaa aagaacaaga 840
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201 <213> ORGANISM: Artificial Sequence

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204 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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207 <400> SEQUENCE: 7

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215 atcagagctg acttccctgt ccctaccata aatgatcttg gaaatccatc tcctaataatc 480
216 agaaggctaa tttgctcaac ctctggaggt tttccaaggc cccacctcta ctggttggaa 540
217 aatggagaag aattaaatgc taccaacaca acagtttccc aagatcctgg aactgagctc 600
218 tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
219 atcaaatatc gggagctgtc ggtgtcacag atcttccctt ggagcaaacc caagcaggag 720
220 cctcccattg atcagcttcc attctgggtc attatcccag taagtgggtg tttggtgctc 780
221 actgcggtag ttctctactg cctggcctgc agacatgttg cgagggtggaa aagaacaaga 840
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229 <213> ORGANISM: Artificial Sequence

231 <220> FEATURE:

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238 accaaaagag tgaagaagac agtaatgcta tctgtgatt acaacacatc cactgaagaa 180
239 ctgacaagcc ttcggtatcta ttggcaaaag gatagtaaaa tgggtgctggc catcctgcct 240
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263 <400> SEQUENCE: 9

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266 accaaaagag tgaagaagac agtaatgcta tctgtgatt acagcacatc cactgaagaa 180
267 ctgacaagcc ttcggtatcta ttggcaaaag gatagtaaaa tgggtgctggc catcctgcct 240
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271 atcagagctg acttccctgt ccctaccata aatgatcttg gaaatccatc tcctaataatc 480
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274 tacatgatta gcagtgaact ggatttcaat gtgacaaata accacagcat cgtgtgtctc 660
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277 actgcggtag ttctctactg cctggcctgc aggcagtgtg cgaggtggaa aagaacaaga 840
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284 <212> TYPE: DNA

285 <213> ORGANISM: Artificial Sequence

287 <220> FEATURE:

288 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:95; N Pos. 223
Seq#:97; N Pos. 929
Seq#:111; N Pos. 827
Seq#:153; N Pos. 893,894
Seq#:157; N Pos. 599
Seq#:174; Xaa Pos. 75
Seq#:176; Xaa Pos. 310
Seq#:190; Xaa Pos. 276
Seq#:232; Xaa Pos. 298
Seq#:236; Xaa Pos. 200
Seq#:284; Xaa Pos. 6,8,14,18,19,20,27,55,60,69,101,106,110,113,120,124,135
Seq#:284; Xaa Pos. 149,150,151,167,168,169,177,192,197,199,208,215,218,227
Seq#:284; Xaa Pos. 249,261,263,267,268,273
Seq#:287; Xaa Pos. 12,25,29,40,122,129,164,196,219,241
Seq#:290; Xaa Pos. 50,55,56,113,120,123,124,125,126,128,129,130,131,135,138
Seq#:290; Xaa Pos. 140,170,193,194,195,209,211,252,253
Seq#:292; Xaa Pos. 9,35,55,110,124,135,183,192,211,215,216,217,231,288,290

VERIFICATION SUMMARY

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:4459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:180
L:4532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:97 after pos.:900
L:4923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:780
L:6089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:840
L:6198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157 after pos.:540
L:6665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:64
L:6851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:304
L:7802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:190 after pos.:272
L:10636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:232 after pos.:288
L:10886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:192
L:13590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:0
L:13593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:16
L:13599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:48
L:13602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:64
L:13608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:96
L:13611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:112
L:13614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:128
L:13617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:144
L:13620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:160
L:13623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:176
L:13626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:192
L:13629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:208
L:13632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:224
L:13635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:240
L:13638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:256
L:13641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:284 after pos.:272
L:13841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:0
L:13844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:16
L:13847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:32
L:13862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:112
L:13865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:128
L:13871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:160
L:13877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:192
L:13880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:208
L:13886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:240
L:14165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:48
L:14177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:112
L:14180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:128
L:14186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:160
L:14192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:192
L:14195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:208
L:14201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:240
L:14361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:0
L:14367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:32
L:14370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:48
L:14379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:96
L:14382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:112

VERIFICATION SUMMARY

DATE: 05/23/2002

PATENT APPLICATION: US/10/032,214

TIME: 17:10:43

Input Set : D:\216730us.app

Output Set: N:\CRF3\05232002\J032214.raw

L:14385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:128
L:14394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:176
L:14400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:292 after pos.:208